

NRMC Members Supporting
Suite 12 - Motorola 28 GHz Sharing Rule
September 20, 1994

Jon Schill
Representative

[Signature]
Representative

Riverton, Inc
Organization

Suite 12 / CWY R.P.
Organization

[Signature]
Representative

W. Tim Campbell
Representative

mm - Tech, Inc
Organization

Bell Atlantic
Organization

Maureen J. Reynolds
Representative

[Signature]
Representative

FCVA
Organization

[Signature]
Organization

John T. Kunkle
Representative

Pengal Hadden
Representative

Motorola Satcom
Organization

International Communications
Engineering Inc and
GHz Equipment Co Inc
Organization

NRMC Members Supporting
Suite 1.2 - Motorola 28 GHz Sharing Rule
September 20, 1994

Ken Robinson

Representative
w changes of 9/21/94

John Sullivan
Representative

Texas Instruments

Organization
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Public Interest Parties

*SEE ATTACHMENT Organization
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The "Public Interest Parties" are a group comprised of the following entities: Association of America's Public Television Stations; Public Broadcasting Service; Organization of State Broadcasting Executives; American Council on Education; Commission on Information Technologies of the National Association of State Universities and Land Grant Colleges; Instructional Telecommunications Consortium of the American Association of Community Colleges; Arizona Board of Regents for Benefit of the University of Arizona; Alliance for Higher Education; Iowa Public Broadcasting Board; University of Maine of Augusta; University of Wisconsin System; Washington State University; South Carolina Educational Television Commission; Ana G. Mendez Educational Foundation; Western Cooperative for Educational Telecommunications; California State Polytechnic University, Pomona; California State University, Sacramento; University of Arizona; Northern Arizona University; University of Washington; University of Hawaii System; University of California System; Alliance for Distance Education in California; Troy State University in Montgomery.

Suite 12 Hubs into Iridium

6378.0	earth radius (km)				
7158.0	earth radius & sat. altitude (km)			PARAMETERS FOR A 0°	0.0
				ELEV. ANGLE TO SATELLITE:	63.0
1221.0	footprint length @ 10° elevation (km)				27.0
200.0	footprint width @ 10° elevation (km)				63.0
					3249.3
111.3	1° of circumference (km)				
15.0	hub spacing (km) zones 3-5	9.3	Hub spacing miles		
225.0	hub area (km ²)				
22263.4	"swath" area (km ²)				
98.9	no. of hubs in one "swath"				
49.5	no. of hubs co-frequency/swath				
type	Hub Transmitting station				
29.0	frequency of operation (GHz)				
20.0	TWTA Saturated Output (dBW)				
-7.0	TWTA Backoff (dBW)				
-16.9	Band split 49 channels (dB)				
-3.9	Hub Xmitr Power/Channel (dBW)				
-1.0	Ant Feed Losses (dB)				
-4.9	Channel power to Antenna (dBW)				
-72.6	18 MHz Power Bandwidth (dBW-Hz)				
5.6	Peaking Factor (dB)				
-71.9	Xmitr spectral density/Hub (dBW/Hz)				
-26.4	Peak Spectral Area Density (dBW/MHz-km ²)		Io/No (dB)		-13.0
	-71.9+60+12+10log(#co-frequency hubs/22263)		Interference Margin		0.0

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